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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/664,012	09/15/2003	Jiann-Chen Chen	81439/LPK	2748
75	90 09/07/2004		EXAMINER	
Lawrence P. K	Cessler		JIMENEZ, MAI	RC QUEMUEL
NexPress Soluti	ions LLC			
Patent Departm	ent		ART UNIT	PAPER NUMBER
1447 St. Paul St	treet		3726	
Rochester, NY	14653-7103		DATE MAILED: 09/07/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	1/
	10/664,012	CHEN ET AL.	\(\lambda \)
Office Action Summary	Examiner	Art Unit	
	Marc Jimenez	3726	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	h the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailling date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Faiture to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a repepty within the statutory minimum of thirty will apply and will expire SIX (6) MONT ute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this commanDONED (35 U.S.C. § 133).	nunication.
Status			
1) Responsive to communication(s) filed on	·		
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	·	• •	nerits is
Disposition of Claims			
4) ☐ Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdreds 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and complex are subjected to by the Examination of the drawing(s) filed on is/are: a) ☐ according to a position of the drawing	rawn from consideration. /or election requirement. ner. ccepted or b) □ objected to b		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	ection is required if the drawing(s	s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Ap iority documents have been r au (PCT Rule 17.2(a)).	plication No received in this National Sta	age
dee the attached detailed Office action for a lis	at or the certified copies fiol fe	suciveu.	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413) /Mail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 09152003. 		ormal Patent Application (PTO-15	52)

Art Unit: 3726

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-14 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (6,696,158) in view of Heeks et al. (5,736,250) and Chen et al. (5,716,714).

Chen et al. ('158) teach a high temperature sleeve 16 having an inner diameter adapted to closely fit around an outer diameter of a mandrel in an electrophotographic machine fuser section, a base cushion elastomer (col. 8, lines 62-67) layer 14 around an outside of the sleeve 16, a primer (col. 9, line 58-60) positioned on the outside of the sleeve 16 to provide bonding between the base cushion 14 and the sleeve 16, and a layer 12 of cured thermoplastic polymer selected from the group consisting of thermoplastic polyfluorocarbon polymers (col. 5, lines 50-51) and thermoplastic polyfluorocarbon random copolymers around the outside of the base cushion 14.

Chen et al. ('158) teach the invention cited with the exception of the sleeve being made of nickel and the primer consisting essentially of a saline coupling agent containing epoxies.

Heeks et al. teach a fuser member with a sleeve 4 made of nickel (col. 5, lines 57-59) mounted on a mandrel 6.

Art Unit: 3726

Chen et al. ('714) teach a fuser member with a primer consisting essentially of a saline coupling agent containing epoxies (col. 4, lines 21-37).

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have replaced the "stainless steel, steel, aluminum etc." sleeve (col. 5, lines 14-15) of Chen et al. ('158) with a sleeve made of nickel, in light of the teachings of Heeks et al., in order to provide a sleeve material that can withstand high temperatures and is suitably rigid. Furthermore, it is noted that Heeks et al. suggest that the cylindrical core could be made of any suitable metal such as those described in col. 5, lines 57-59. Therefore, because the types of materials Chen et al. describes in col. 5, lines 14-15 and the materials described by Heeks et al. at col. 5, lines 57-59 were art-recognized equivalents at the time of the invention was made, one of ordinary skill in the art would have found it obvious to substitute the sleeve materials described by Chen et al. for the nickel material described by Heeks et al.

Furthermore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Chen et al. ('158) with a primer consisting essentially of a saline coupling agent containing epoxies, in light of the teachings of Chen et al. ('714), in order to provide a primer that can easily bond with metal such as nickel described in col. 3, lines 23-24.

Regarding claims 2 and 4, official notice is taken that it is well known in the art to have used a mandrel made of nickel, in order to provide a material that can withstand high temperatures and is suitably rigid. Furthermore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have selected the claimed material, since it has been held to be within the general skill of a worker in the art to select a known material on the

Art Unit: 3726

basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. See also *Ballas Liquidating Co. v Allied industries of Kansas, Inc.* (DC Kans) 205 USPQ 331.

Regarding claims 3 and 17, it is noted that Chen ('714) teaches that the thickness of the nickel sleeve is from about 0.001 to about 0.05 inches (col. 3, lines 30-32). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Chen et al. ('158)/Heeks et al. with the sleeve having a thickness from about 0.001 to about 0.05 inches, in light of the teachings of Chen ('714), in order to a nickel sleeve that has a suitable core stiffness (as suggested by Chen ('714) at col. 3, lines 27-28).

Regarding claim 5, official notice is taken that it is well known in the art to provide a tolerance of about 0.001 to about 0.002 inches, in order to provide a close fit between the sleeve and mandrel.

Regarding claims 6-8, Chen ('158) teaches using silicone rubber as the base cushion elastomer layer (col. 8, lines 66-67) and polydimethylsiloxane (col. 8, lines 64-65). Note the fillers in col. 9, lines 1-40.

Regarding claims 9-13, official notice is taken that it is well known in the art to have used the claimed primer materials, in order to provide a suitable primer that provides a secure bond between the nickel sleeve and the base cushion layer. Furthermore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have selected the claimed material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design

Art Unit: 3726

choice. In re Leshin, 125 USPQ 416. See also Ballas Liquidating Co. v Allied industries of Kansas, Inc. (DC Kans) 205 USPQ 331.

Regarding claim 14, Chen et al. (158) teach the materials claimed in col. 7, lines 6-20.

Regarding claim 16, the patentability of product does not depend on its method of production. *In re Thorpe*, 777 F.2d 695, 697, 227 USPQ 964, 966 (Fed. Cir. 1985) (citing *In·re Pilkington*, 411 F.2d 1345, 1348, 162 USPQ 145, 147 (CCPA 1969)). If a product in a product-by-process claim is the same as or obvious from a product in the prior art, the claim is unpatentable even though the prior product is made by a different process. Id. citing *In re Marosi*, 710 F.2d 799, 803, 218 USPQ 289, 292-93 (Fed. Cir. 1983); *Johnson & Johnson v. W.L. Gore*, 436 F. Supp. 704, 726, 195 USPQ 487, 506 (D. Del. 1977); see also *In re Fessmann*, 489 F.2d 742, 744, 180 USPQ 324, 326 (CCPA 1974).

Regarding claim 18, Chen et al. ('158) teach that the base cushion layer has a thickness of about 0.6 to about 50mm (col. 8, lines 58-61).

3. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (6,696,158) in view of Heeks et al. (5,736,250) and Chen et al. (5,716,714) as applied to claim 1 above, and further in view of Chen et al. (6,355,352).

Chen et al. (6,696,158)/Heeks et al. (5,736,250)/Chen et al. (5,716,714) teach the invention cited with the exception of having antimony-doped tin oxide particles.

Chen et al. (6,355,352) teach using antimony-doped tin oxide particles (col. 5, lines 3-5). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Chen et al. (6,696,158)/Heeks et al. (5,736,250)/Chen

Art Unit: 3726

et al. (5,716,714) with antimony-doped tin oxide particles, in light of the teachings of Chen et al. (6,355,352), in order to reduce the temperatures required for curing as suggested by Chen et al. at col. 5, lines 4-5.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc Jimenez whose telephone number is (703) 306-5965. The examiner can normally be reached on Monday-Friday between 5:30 a.m.-2:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

Art Unit: 3726

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marc Jimenez
Patent Examiner

AU 3726

MJ

September 3, 2004